



SEQUENCE LISTING

<110> RAMESHWAR, Pranela

<120> HEMATOPOIETIC GROWTH FACTOR INDUCIBLE NEUROKININ-TYPE

<130> 267/033 (UMD-0055)

<140> US 10/039,272

<141> 2001-10-20

<150> US 60/241,881

<151> 2000-10-20

<160> 4

<170> PatentIn version 3.3

<210> 1

<211> 2661

<212> DNA

<213> Homo sapiens

<400> 1

cggcacgagg gccagagga ataagttaac cttggtgcct gcgtccgtga gaattcagca
60

tggaatgtct ctactatttc ctgggatttc tgctcctggc tgcaagattg ccacttgatg
120

ccgccaaacg atttcatgat gtgctgggca atgaaagacc ttctgcttac atgagggagc
180

acaatcaatt aaatggctgg tcttctgatg aaaatgactg gaatgaaaaa ctctaccag
240

tgtggaagcg gggagacatg aggtggaaaa actcctggaa gggaggccgt gtgcaggcgg
300

tcctgaccag tgactcacca gccctcgtgg gctcaaatat aacatttgcg gtgaacctga
360

tattccctag atgccaaaag gaagatgcca atggcaacat agtctatgag aagaactgca
420

gaaatgaggc tggtttatct gctgatccat atgtttacaa ctggacagca tggtcagagg
480

acagtgacgg ggaaaatggc accggccaaa gccatcataa cgtcttcctt gatgggaaac
540

cttttcctca ccaccccgga tggagaagat ggaatttcat ctacgtcttc cacacacttg
600

gtcagtatct ccagaaattg ggacgatgtt cagtgagagt ttctgtgaac acagccaatg
660

tgacacttgg gcctcaactc atggaagtga ctgtctacag aagacatgga cgggcatatg
720

ttcccatcgc acaagtgaag gatgtgtacg tggtaacaga tcagattcct gtgtttgtga
780

ctatgttcca gaagaacgat cgaaattcat ccgacgaaac cttcccaaag atctcccat
840

tatgtttgat gtcctgattc atgatactag ccacttctc aattattcta ccattaacta
900

caagtggagc ttcggggata atactggcct gtttgtttcc accaatcata ctgtgaatca
960

cacgtatgtg ctcaatggaa ccttcagcct taacctcact gtgaaagctg cagcaccagg
1020

accttgtccg ccaccgccac caccaccag accttcaaaa cccaccctt ctttaggacc
1080

tgctggtgac aacccctgg agctgagtag gattcctgat gaaaactgcc agattaacag
1140

atatggccac tttcaagcca ccatacaat tgtagaggga atcttagagg ttaacatcat
1200

ccagatgaca gacgtcctga tgccggtgcc atggcctgaa agctccctaa tagactttgt
1260

cgtgacctgc caaggagca ttcccacgga ggtctgtacc atcatttctg accccacctg
1320

cgagatcacc cagaacacag tctgcagccc tgtggatgtg gatgagatgt gtctgctgac
1380

tgtgagacga accttcaatg ggtctgggac gtactgtgtg aacctcacc tgggggatga
1440

cacaagcctg gctctcacga gcaccctgat ttctgttctt gacagagacc cagcctcgcc
1500

tttaaggatg gcaaacagtg ccctgatctc cggtggctgc ttggccatat ttgtcactgt
1560

gatctccctc ttggtgtaca aaaaacacaa ggaatacaac ccaatagaaa atagtcctgg
1620

gaatgtggtc agaagcaaag gcctgagtgt ctttctcaac cgtgcaaaag ccgtgttctt
1680

cccgggaaac caggaaaagg atccgctact caaaaaccaa gaatttaaag gagtttctta
1740

aatttcgacc ttgtttctga agctcacttt tcagtgccat tgatgtgaga tgtgctggag
1800

tggtatttaa cctttttttc ctaaagatta ttgttaaata gatattgtgg tttggggaag
1860

3

ttgaattttt tataggttaa atgtcatttt agagatgggg agagggatta tactgcaggc
1920

agcttcagcc atgttgtgaa actgataaaa gcaacttagc aaggcttctt ttcattattt
1980

tttatgtttc acttataaag tcttaggttaa ctagtaggat agaaacactg tgtcccgaga
2040

gtaaggagag aagctactat tgattagagc ctaaccagg ttaactgcaa gaagaggcgg
2100

gatactttca gctttccatg taactgtatg cataaagcca atgtagtcca gtttctaaga
2160

tcatgttcca agctaactga atcccacttc aatacacact catgaactcc tgatggaaca
2220

ataacaggcc caagcctgtg gtatgatgtg cacacttgct agactcagaa aaaatactac
2280

tctcataaat ggggtgggagt attttggtga caacctactt tgcttggctg agtgaaggaa
2340

tgatattcat atattcattt attccatgga catttagtta gtgcttttta tataccaggc
2400

atgatgctga gtgacactct tgtgtatatt tccaaatttt tgtatagtcg ctgcacatat
2460

ttgaaatcaa aatattaaga ctttccaaaa atttggtccc tggtttttca tggcaacttg
2520

atcagtaagg atttcccctc tgtttggaac taaaaccatt tactatatgt tagacaagac
2580

atTTTTTTTT tttccttcct gaaaaaaaaa tgagggaaga gacaaaaaaaaa aaaaaaaaaa
2640

aaaaaaaaaa aaaaaaaaaa a
2661

<210> 2
<211> 560
<212> PRT
<213> Homo sapiens

<400> 2

Met Glu Cys Leu Tyr Tyr Phe Leu Gly Phe Leu Leu Leu Ala Ala Arg
1 5 10 15

Leu Pro Leu Asp Ala Ala Lys Arg Phe His Asp Val Leu Gly Asn Glu
20 25 30

Arg Pro Ser Ala Tyr Met Arg Glu His Asn Gln Leu Asn Gly Trp Ser
35 40 45

Ser Asp Glu Asn Asp Trp Asn Glu Lys Leu Tyr Pro Val Trp Lys Arg
 50 55 60

Gly Asp Met Arg Trp Lys Asn Ser Trp Lys Gly Gly Arg Val Gln Ala
 65 70 75 80

Val Leu Thr Ser Asp Ser Pro Ala Leu Val Gly Ser Asn Ile Thr Phe
 85 90 95

Ala Val Asn Leu Ile Phe Pro Arg Cys Gln Lys Glu Asp Ala Asn Gly
 100 105 110

Asn Ile Val Tyr Glu Lys Asn Cys Arg Asn Glu Ala Gly Leu Ser Ala
 115 120 125

Asp Pro Tyr Val Tyr Asn Trp Thr Ala Trp Ser Glu Asp Ser Asp Gly
 130 135 140

Glu Asn Gly Thr Gly Gln Ser His His Asn Val Phe Pro Asp Gly Lys
 145 150 155 160

Pro Phe Pro His His Pro Gly Trp Arg Arg Trp Asn Phe Ile Tyr Val
 165 170 175

Phe His Thr Leu Gly Gln Tyr Phe Gln Lys Leu Gly Arg Cys Ser Val
 180 185 190

Arg Val Ser Val Asn Thr Ala Asn Val Thr Leu Gly Pro Gln Leu Met
 195 200 205

Glu Val Thr Val Tyr Arg Arg His Gly Arg Ala Tyr Val Pro Ile Ala
 210 215 220

Gln Val Lys Asp Val Tyr Val Val Thr Asp Gln Ile Pro Val Phe Val
 225 230 235 240

Thr Met Phe Gln Lys Asn Asp Arg Asn Ser Ser Asp Glu Thr Phe Leu
 245 250 255

Lys Asp Leu Pro Ile Met Phe Asp Val Leu Ile His Asp Pro Ser His
 260 265 270

Phe Leu Asn Tyr Ser Thr Ile Asn Tyr Lys Trp Ser Phe Gly Asp Asn
 275 280 285

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gly | Leu | Phe | Val | Ser | Thr | Asn | His | Thr | Val | Asn | His | Thr | Tyr | Val |
| 290 | | | | | | 295 | | | | | 300 | | | | |
| | | | | | | | | | | | | | | | |
| Leu | Asn | Gly | Thr | Phe | Ser | Leu | Asn | Leu | Thr | Val | Lys | Ala | Ala | Ala | Pro |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 |
| | | | | | | | | | | | | | | | |
| Gly | Pro | Cys | Pro | Pro | Pro | Pro | Pro | Pro | Pro | Arg | Pro | Ser | Lys | Pro | Thr |
| | | | | 325 | | | | | 330 | | | | | 335 | |
| | | | | | | | | | | | | | | | |
| Pro | Ser | Leu | Gly | Pro | Ala | Gly | Asp | Asn | Pro | Leu | Glu | Leu | Ser | Arg | Ile |
| | | | 340 | | | | | 345 | | | | | 350 | | |
| | | | | | | | | | | | | | | | |
| Pro | Asp | Glu | Asn | Cys | Gln | Ile | Asn | Arg | Tyr | Gly | His | Phe | Gln | Ala | Thr |
| | | 355 | | | | | 360 | | | | | 365 | | | |
| | | | | | | | | | | | | | | | |
| Ile | Thr | Ile | Val | Glu | Gly | Ile | Leu | Glu | Val | Asn | Ile | Ile | Gln | Met | Thr |
| | 370 | | | | | 375 | | | | | 380 | | | | |
| | | | | | | | | | | | | | | | |
| Asp | Val | Leu | Met | Pro | Val | Pro | Trp | Pro | Glu | Ser | Ser | Leu | Ile | Asp | Phe |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 |
| | | | | | | | | | | | | | | | |
| Val | Val | Thr | Cys | Gln | Gly | Ser | Ile | Pro | Thr | Glu | Val | Cys | Thr | Ile | Ile |
| | | | | 405 | | | | | 410 | | | | | 415 | |
| | | | | | | | | | | | | | | | |
| Ser | Asp | Pro | Thr | Cys | Glu | Ile | Thr | Gln | Asn | Thr | Val | Cys | Ser | Pro | Val |
| | | | 420 | | | | | 425 | | | | | 430 | | |
| | | | | | | | | | | | | | | | |
| Asp | Val | Asp | Glu | Met | Cys | Leu | Leu | Thr | Val | Arg | Arg | Thr | Phe | Asn | Gly |
| | | 435 | | | | | 440 | | | | | 445 | | | |
| | | | | | | | | | | | | | | | |
| Ser | Gly | Thr | Tyr | Cys | Val | Asn | Leu | Thr | Leu | Gly | Asp | Asp | Thr | Ser | Leu |
| | 450 | | | | | 455 | | | | | 460 | | | | |
| | | | | | | | | | | | | | | | |
| Ala | Leu | Thr | Ser | Thr | Leu | Ile | Ser | Val | Pro | Asp | Arg | Asp | Pro | Ala | Ser |
| 465 | | | | | 470 | | | | | 475 | | | | | 480 |
| | | | | | | | | | | | | | | | |
| Pro | Leu | Arg | Met | Ala | Asn | Ser | Ala | Leu | Ile | Ser | Val | Gly | Cys | Leu | Ala |
| | | | | 485 | | | | | 490 | | | | | 495 | |
| | | | | | | | | | | | | | | | |
| Ile | Phe | Val | Thr | Val | Ile | Ser | Leu | Leu | Val | Tyr | Lys | Lys | His | Lys | Glu |
| | | | 500 | | | | | 505 | | | | | 510 | | |
| | | | | | | | | | | | | | | | |
| Tyr | Asn | Pro | Ile | Glu | Asn | Ser | Pro | Gly | Asn | Val | Val | Arg | Ser | Lys | Gly |
| | | 515 | | | | | 520 | | | | | 525 | | | |

Leu Ser Val Phe Leu Asn Arg Ala Lys Ala Val Phe Phe Pro Gly Asn
 530 535 540

Gln Glu Lys Asp Pro Leu Leu Lys Asn Gln Glu Phe Lys Gly Val Ser
 545 550 555 560

<210> 3
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide primer

<400> 3
 cggggtacca tggaatgtct ctacta
 26

<210> 4
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide primer

<400> 4
 ccggaattct cgaaatttaa gaaact
 26